



DEC 23 2004

H10019RAR  
Customer No. 01333

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of:  
Edward Neil Chapman

PRINTING SYSTEM AND METHOD  
FOR CUSTOMIZATION OF A PRINT  
JOB

Serial No. 09/731,503

Filed 06 December 2000

Group Art Unit: 2626

Examiner: Michael Burleson

I hereby certify that this correspondence is being deposited today with the United States Postal Service as first class mail in an envelope addressed to Commissioner For Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

*Debra Nowacki*  
Debra Nowacki  
December 20, 2004  
Date

**RULE 1.131 DECLARATION**

I, Edward Chapman, do hereby declare that:

1. I am the inventor of the above identified patent application.  
2. Prior to May 17, 2000, I had completed our invention as described and claimed in the subject application in this country, as evidenced by the following:

a. Prior to May 17, 2000, having earlier conceived the idea of a method of customizing a print job comprising receiving an input of an application file; selecting a preferential document-processing feature from a group of document-processing features for a print job; and, applying a plug-in module, for supporting the preferential document-processing feature, to the application file, did submit an invention disclosure to the Heidelberg Digital patent department detailing the invention as evidenced by the HEIDELBERG DIGITAL INVENTION DISCLOSURE attached hereto as Exhibit A.

b. Before submission of the HEIDELBERG DIGITAL INVENTION DISCLOSURE attached hereto as Exhibit A, had implemented the invention claimed in the above identified patent application, as evidenced by the statement in Exhibit A.

I further declare under penalty of perjury pursuant to the laws of the United States of America that the foregoing is true and correct and that this declaration was executed by me on December 17, 2004 at Rochester, New York.

Edward Neil Chapman  
Edward Neil Chapman

12-17-04  
Date

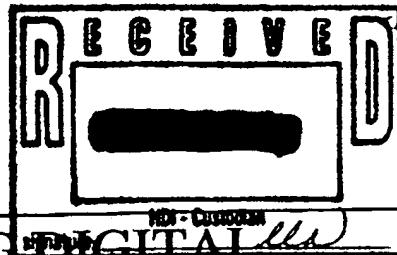
30 West Garden DR -  
Street  
Rochester NY 14606  
City, State, Zip

## Exhibit A



Cost Code \_\_\_\_\_

## Printer: <Ins for Customization>



Request No. \_\_\_\_\_  
Access. No. \_\_\_\_\_  
Docket No. \_\_\_\_\_

# HEIDELBERG DIGITAL INVENTION DISCLOSURE

DOCKET # 10019

ASSIGNED DATE:

### Subject: Patentability

## Evaluation for: <Printer Plug-Ins for Customization>

**Documentation:** Notebook No./Page No.: \_\_\_\_\_ \ \_\_\_\_\_ Date: \_\_\_\_\_ Author(s): \_\_\_\_\_  
Other (e.g. Technical Reports, memos, Etc.) internal web page Date: \_\_\_\_\_ Author(s): Ed Chapman

Commercialization/Outside Disclosure: Currently Planned?  Yes  No

Product, Process,  
Project, or Program: DHV1E Date: first product [REDACTED] (Check here [ ] if Clearance Study is also requested)

### Disclosure:

## I. Background

This invention relates to a printer architecture that allows for customizations or plug-ins to the standard product without modifying the standard product and to be able to exercise these customizations from within a print job. Office Imaging high end copier printer organization has traditionally had a customization group who's job was to solve customer's needs when the standard off the shelf product would not suit their needs. One example of this on the IS92p printer was to do a RIP and store to TIFF files allowing for printing at a later time. Another was a mail merge imposition application. The method of solving these unique problems were to modify a standard product's software and or hardware and creating a custom version for those particular customer(s).

### US patents related:

## 6006279 Plug-in Module host framework

5978597 Architecture for customizable component system

5867709 Method and system for reusing customizations to a software product

**Contributor (s) / Inventor (s):**

**Signature of Contributor** **Date**

**Signature of Reviewer  
(Read and understood)**

Date

Kevin Gerino  
Mike Tompkins

HEIDELBERG DIGITAL INVENTION DISCLOSURE

Request No. \_\_\_\_\_  
Docket No. \_\_\_\_\_

**Title: <Printer Plug-Ins for Customization>**

**Author: Ed Chapman**

**Summary**

A typical print job starts with an application file. To get it in a form our printer understands a PDL file is created such as PDF, PCL, or PostScript. Printer drivers may be employed to select printer features such as media's to use or stapling. Another method of selecting features is to create the PDL file and use a downloader such as KPFD to send it to the printer. The files go to the printer may be spooled and is then sent to the RIP. Within the RIP there are interpreters for the PDL's that turn the PDL file into bitmap images the marking engine understands.

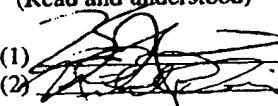
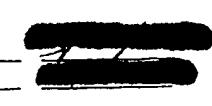
This invention describes a standard API for customization plug-ins. The user turns the customization(s) on or off with options with the print driver or downloader. If the RIP detects the customization(s) are turned on and the plug-ins are installed it executes them at job start, job end, and with each image. The customization inherits full knowledge of the print job including the ability to post-process the bitmap images while the RIP has no knowledge about the customization besides it's on or off and may have options and it may turn off printing. Development of the standard product and customization are decoupled from each other.

The first implementation of a customization plug-in was recently shipped to customers so we must file before [REDACTED] The first product was a RIP to store.

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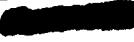
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<b>Signature of Contributor</b>	<b>Date</b>	<b>Signature of Reviewer</b> (Read and understood)	<b>Date</b>
1. <u>Ed Chapman</u>	[REDACTED]	(1) 	[REDACTED]
2. _____	_____	(2) 	[REDACTED]
3. _____	_____		

HEIDELBERG DIGITAL INVENTION DISCLOSURE

Request No. \_\_\_\_\_  
Docket No. \_\_\_\_\_

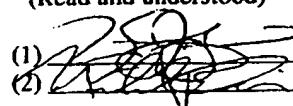
Full Name (Print or type)	Organization	Phone	Signature	Date
1. Edward Neil Chapman	HDI	65843	<i>Edward N. Chapman</i>	
2. _____	_____	_____	_____	_____
3. _____	_____	_____	_____	_____
4. _____	_____	_____	_____	_____

Read and Understood By: (1)  (2)   
(Two disclosure reviewers) (Signature) (Date) (Signature) (Date)

Approved By: \_\_\_\_\_  
(Name of Lab head, Technical Director, etc.) (Title/Organization) (Signature) (Date)

**Category: TECHNICAL DIRECTOR, ANSWER THE FOLLOWING QUESTIONS:**

I. Is there a reasonable prospect of commercial use of the invention by HEIDELBERG DIGITAL?  Yes  No  
II. If not, is there a reasonable prospect of commercial use by others to compete with HEIDELBERG DIGITAL?  Yes  No  
(Initials \_\_\_\_\_, Date \_\_\_\_\_)

Signature of Contributor	Date	Signature of Reviewer (Read and understood)	Date
1. <i>Edward N. Chapman</i>			
2. _____	_____	_____	_____
3. _____	_____	_____	_____